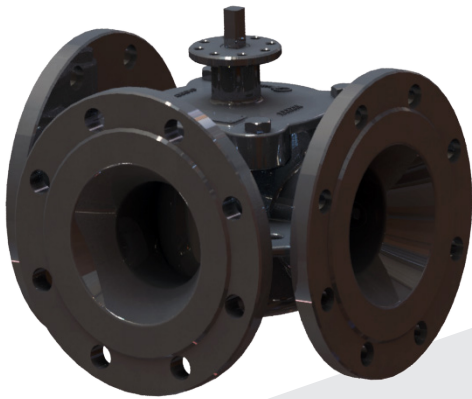


# 3-way Control Valve type G3FMT-SL - High Flow

Nodular cast iron, PN10, DN100, 200 & 350 mm

0-2.6.20-A

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## TECHNICAL DATA

<b>Materials:</b>	
- Valve body, slide	Nodular cast iron EN-GJS-400-15
- Sealing element and O-ring	Silicone/PTFE
<b>Flow characteristic</b>	Almost linear
<b>Leakage rate</b>	ANSI class I
<b>Flanges</b>	EN 1092-2 PN 10
- Option	JIS B 2210 5K/10K ANSI class 150
<b>Max. pressure <math>\Delta p</math>, against which the valve can close</b>	5 bar
<b>Nominal pressure</b>	PN 10
<b>Design temperature</b>	120°C

## APPLICATIONS

Control valve type G3FMT-SL is a three-way control valve with a slide for quarter turn operation designed for regulating of fresh water, lubricating oil and other liquid media. The valves are designed for use in conjunction with industrial processes, district heating and marine installations with large water or lubricating oil volumes:

- Engine Jacket Cooling Water System
- Lubricating Oil Cooling
- Central Cooling Water System, etc.

The valves are designed for use in conjunction with valve motor type CAR-H with handle for manual operation or for use in conjunction with a pneumatic actuator type VT.

## DESIGN

The valve body and the valve slide are made of nodular cast iron. The valve flanges are drilled according to EN 1092-2 - option JIS B 2210 5K/10k and ANSI class 150.

## FUNCTION

The slide is firmly connected with the motor spindle. When the slide is in the one outer position by turning the spindle, connection A-AB is fully open and connection B-AB is fully closed. In the other outer position connection A-AB is fully closed and connection B-AB is fully open. In the intermediate positions the opening degrees change proportionally. The valve has a small tolerance between body and slide.

Connection described for AB-Left valves - reverse connection for AB-Right valves.

This section to be read together with sketches page 2 this data sheet.

## FEATURES

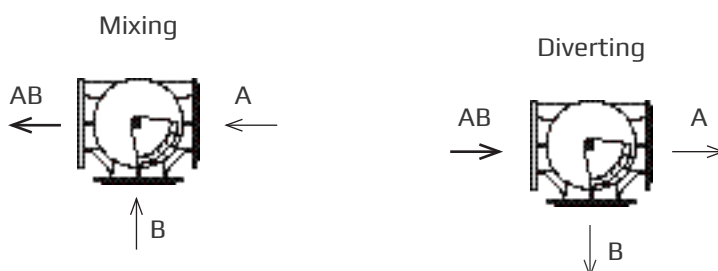
- Simple design secures reliable controls and reduces costly downtime
- Most compact valve on the market
- Full flexibility on port orientation AB right or AB left

Subject to change without notice.

**PORT NUMBERING: AB-RIGHT**



**PORT NUMBERING: AB-LEFT**



**MOUNTING**

The valve connections are marked A, B and AB. The slide is operating between A and B. Check slide position before installation in the pipe. The slide position is marked on the top of the shaft. The valves can be installed with vertical as well as horizontal spindles. The valves must be mounted in a way that the valve actuator will be exposed to a minimum of moisture and unnecessary vibrations.

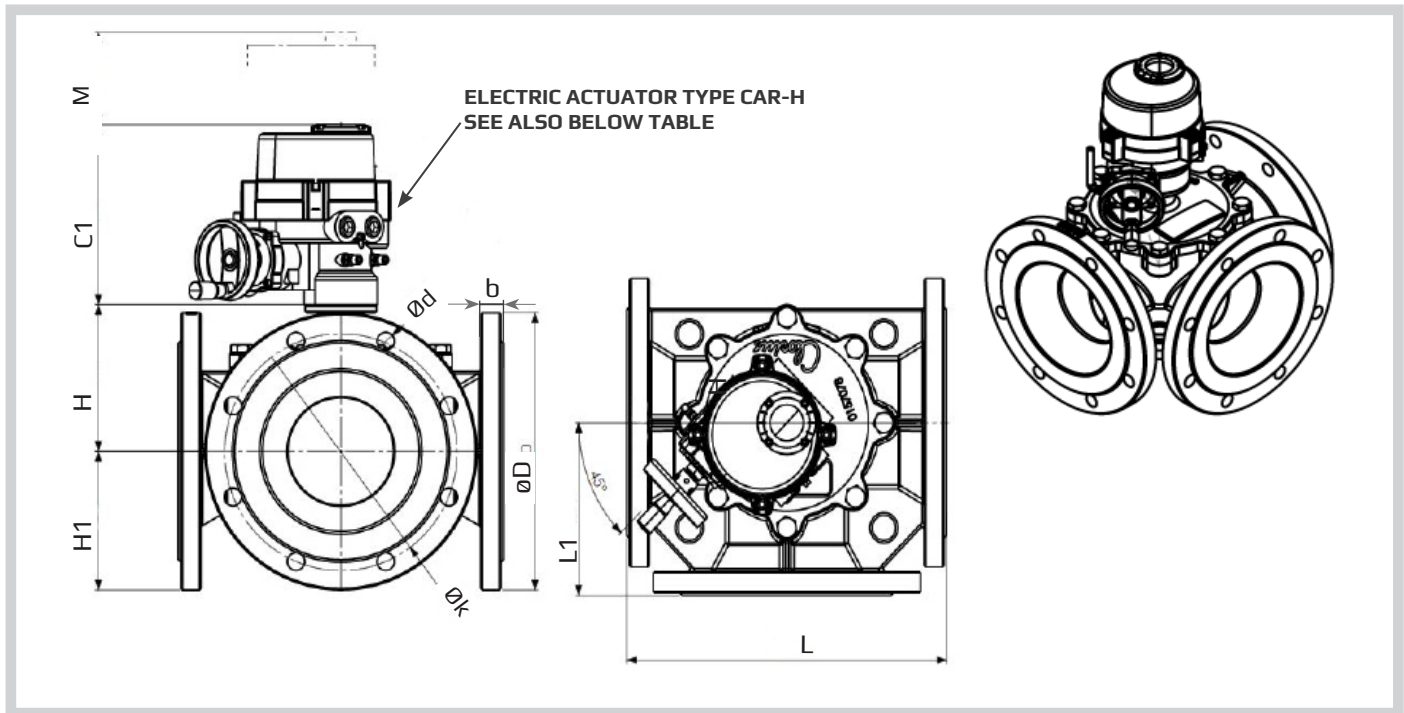
# 3-way Control Valve type G3FMT-SL - High Flow

Nodular cast iron, PN10, DN100, 200 & 350 mm

0-2.6.20-A

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## DIMENSION SKETCH



**SPECIFICATIONS - TABLE 1** (read this together with table on page 4)

Type	L (mm)	L1 (mm)	H (mm)	H1 (mm)	b (mm)	C1 (mm)	M (mm)	Electric Actuator Type CAR-H
100 G3FMT-SL	296	148	140	ØD/2	24	223	110	CAR-H 006
200 G3FMT-SL	410	205	202	ØD/2	28,4	223	110	CAR-H 010
350 G3FMT-SL	660	330	277,5	ØD/2	36	315	150	CAR-H 035

ØD/2 - Depends on flange type (see also table 2)

Subject to change without notice.

SPECIFICATIONS - TABLE 2

Flange connections	EN 1092-2			ANSI Class 150			JIS B 2210 5K			JIS B 2210 10K		
	D (dia.) (mm)	k (dia.) (mm)	d mm dia. (number)	D (dia.) (mm)	k (dia.) (mm)	d mm dia. (number)	D (dia.) (mm)	k (dia.) (mm)	d mm dia. (number)	D (dia.) (mm)	k (dia.) (mm)	d mm dia. (number)
DN100	220	180	19x(8)	230	191	19x(8)	200	165	19x(8)	210	175	19x(8)
DN200	343	295	22x(8)	343	298	22x(8)	320	280	23x(8)	330	290	23x(12)
DN350	505	460	23x(16)	533	476	29x(12)	480	435	25x(12)	490	445	25x(16)

SPECIFICATIONS - TABLE 3

Type	Flange connection DN in mm	KvS m <sup>3</sup> /h	Torque Nm For inlet P*	Weight kg
DN100	100	232	40	27.9
DN200	200	1.300	115	72
DN350	350	3.840	265	183

\*Torque calculated at max  $\Delta P$  for: DN100 - 300 - 5 Bar

\*\*NOTE: KvS is max. KvS value